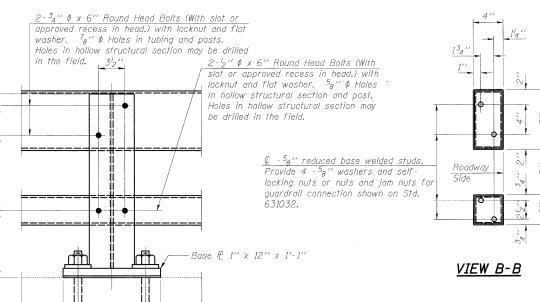
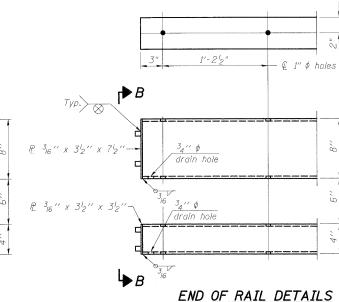


STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



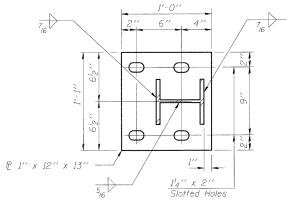


All field drilled holes shall be coated with an approved zinc rich paint before erection.

Posts shall not be located closer than 1'-3'' to an existing bridge expansion joint or end of bridge.

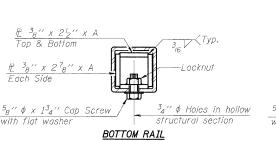
Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.

Provide one 'a'' and two 'a'' steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

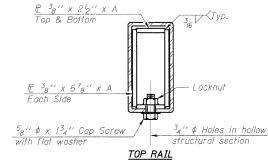


BASE PLATE DETAIL

10-1-08

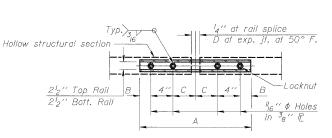


⁵8″ ¢ x 1³4″ Cap Screw

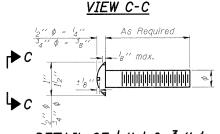


SECTIONS AT RAIL SPLICE

SECTION A-A



PLAN-BOTT. SPLICE PL **TYPICAL**



Without Slot or Recess

 \ominus

With Slot

DETAIL OF 12" \$ & 34" \$ ROUND HEAD BOLTS

SPLICE DIMENSIONS

T	D	Α	В	С	E
≤4′′	212"	1'-8''	2"	4''	21/2"
>4"\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	334''	2'-0"	2'2"	512"	312"
>6½"≤9"	5"	2'-4"	31/2"	6/2"	9"
>9′′ ≤13′′	7''	2'-10''	412"	812"	11''
Rail Splice	4"	1'-8''	2"	4''	

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	20

AT EXPANSION JT.

Locknut

1'8" x E Slotted

Holes in hollow

structural section



SINGH 300 W. ADAMS ST. CHICAGO, IL 60606 SINGH & ASSOCIATES, INC. TEL: (312) 629-0240
FAX: (312) 629-8449 CONSULTING ENGINEERS

⁵₈ " \$ x 1³₄ " Cap Screw

with flat washer & 34" \$

XS pipe spacer, '2" long.

SHEET NO. SHEETS

F.A.I. RTE. 55

TOTAL SHEET NO. SECTION COUNTY (99-1&2)AC-3 WILL 524 326 Sta. 8007+25 (E. Frontage Rd.) CONTRACT NO. 60C31 FED. RD. DIST. NO. 1 | ILLINOIS FED. AID PROJECT

STEEL RAILING, TYPE 2399

STRUCTURE NO. 099-3034

SB-03A

CHECKED CL DRAWN CHECKED SP R-31

DESIGNED VP

(6'-3" Maximum Post Spacing)